

CORRECTED VERSION

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
25 August 2005 (25.08.2005)

PCT

(10) International Publication Number  
**WO 2005/077532 A1**

(51) International Patent Classification<sup>7</sup>: **B01J 35/00**,  
23/89, B01D 53/94

(21) International Application Number:  
PCT/JP2005/002195

(22) International Filing Date: 8 February 2005 (08.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
2004-040091 17 February 2004 (17.02.2004) JP

(71) Applicant (for all designated States except US): **NISSAN MOTOR CO., LTD.** [JP/JP]; 2, Takara-cho, Kanagawa-ku, Yokohama-shi, Kanagawa 2210023 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **YASUDA, Hirofumi. SUGA, Katsuo. NAKAMURA, Masanori. WAKAMATSU, Hironori. SHIRATORI, Kazuyuki. SEKIBA, Toru.**

(74) Agents: **MIYOSHI, Hidekazu** et al.; Toranomom Kotohira Tower, 2-8, Toranomom 1-chome, Minato-ku, Tokyo 1050001 (JP).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(48) Date of publication of this corrected version:  
24 November 2005

(15) Information about Correction:  
see PCT Gazette No. 47/2005 of 24 November 2005, Section II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CATALYST POWDER, EXHAUST GAS PURIFYING CATALYST, AND METHOD OF PRODUCING THE CATALYST POWDER

(57) Abstract: A method of producing catalyst powder of the present invention has a step of precipitating any one of a noble metal particle (5) and a transition metal particle (10) in a reversed micelle (1); a step of precipitating, in the reversed micelle (1) in which any one of the noble metal particle (5) and the transition metal particle (10) is precipitated, a porous support material (7) which supports the noble metal particle (5) and the transition metal particle (10); and a step of precipitating the other of the noble metal particle (5) and the transition metal particle (10) in the reversed micelle (1) in which any one of the noble metal particle (5) and the transition metal particle (10) is precipitated. By this method, it is possible to obtain catalyst powder capable of maintaining initial purification performance thereof even if being exposed to the high temperature.



WO 2005/077532 A1